CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0445 DESIGN AND TECHNOLOGY

0445/21 Paper 2 (Graphic Products), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

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[Total 10]

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	Page 2		Mark Scheme	Syllabus
			IGCSE – October/November 2013	0445
A 1	(a)	Ø40 circl Bottom li	nd horizontal arm le (1) ine of horizontal arm (1) (two parts) to touch raised arm (1)	Syllabus 0445
	(b)		m 16 wide touching circle (1) m 16 wide touching circle (1)	[3]
	(c)	Lower le	g 60° to centre line (1) eg 60° to centre line (1) 10, inner 90° (1)	[3]
				[Total 9]
A2	(a)	lettering Accuracy E (1) R (1) Spacing Height (1)	, ,	[4]
	(b)	-	rd outline complete (1) rical (1)	[2] [Total 6]
А3	(a)	Ø50 Circ Ø50 colu Column Repeat & Any octa 30 Regu	re base × 20 high (1) cle drawn with plots (1) umn to drawn circle (1) shown 80 high (1) Ø 50 from plots (1)	[8]
	(b)		thin line e outer on octagon (1) inner on octagon (1)	[2]

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[Total 18]

Page 3		Mark Scheme	Syllabus
. ugc o		IGCSE – October/November 2013	0445
34 (a)	5 extra s three fur glue tabs glue tabs fold line 4 × Fold Half ellip Half ellip Construc	ected surfaces (1) urfaces to O/L incl full lid PR (5) ther glue tabs (on 40 edge of 70 long sides) (3) s 8/9 wide (1) s angled ends 45° (1) at 35mm to lid (1) lines correct convention PR (4) se drawn (1) se to size (1) ction (0–2 Pr) (2) rientated on correct half ellipse (1)	Syllabus 0445 Otal 21
(b)	Slot	- suitable method on back, etc. (1) a tab to tuck-in, etc. (1)	
		ent (1) d (1)	[2] [Total 4]
35 (a)	Full size	view	
	Outer red Any regu Length 2 Width 12	ular rectangle on corner A (1) 40 (1)	[3]
	10 × sem	cle all (1) 80 space (to L of fold) (1) i-circle R40 on centre line (1) d lines (2 × 1) in correct posn (2)	[5]
	Mind On d Con	ipse or axis 120 (60 shown) (1) or axis 80 (1) centre lines given (1) struction Pr 0–2 (2) urate outline to construction (1)	[6]
	Wat Step	e of pool shown (1) er level with ellipse (1) o 50 from fold (1) o level with foot (1)	<u>[4]</u>

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Page 4	Mark Scheme	Syllabus	.0	ľ
	IGCSE – October/November 2013	0445	800	

(b) Plan view

Bends at correct position (2×1) (2) Sides 70 & 70 shown bent back @ 90° (1)

(c) Joining
Additional card + joint Pr 0–2 (2)
Notes Pr 0–2 (2)

[4]

[Total 7]